

SPECIFICATION

Property No. 112836

Zinc Orthosilicate Phosphor

General Characteristics and Uses

1. The phosphor is to conform in all respects with the Printing Office's standard sample. The standard is Sylvania's Zinc Orthosilicate Phosphor Type 2284. A sample can be supplied if needed. The phosphor should be as easy to ground and disperse as the standard in the Printing Office's ink varnishes. The particle size of the powder shall be the same as that of the standard.
2. The phosphor is used in making inks especially for the postal service. It must give a green emission and when used at the current concentrations in our inks the emission must be strong enough to activate a signal in a postal card canceling machine.
3. The phosphor when used in the Printing Office's ink varnishes at the current concentrations, must be capable of producing a clear coating which is used for printing as a fifth down at the end of a four color printing process.
4. In all cases when the ink or the clear coating is finished the drying time, the viscosity and rub resistance of the finished product must be equal to the classified inks and coating currently being used for the Postal Service.

Packaging

The phosphor is to be bagged in polyethylene and supplied in 150-pound fiber drums.

Sample Requirement

A one pound sample is required. Additional amounts of samples may be purchased for more extensive performance tests if the one pound sample proves satisfactory.